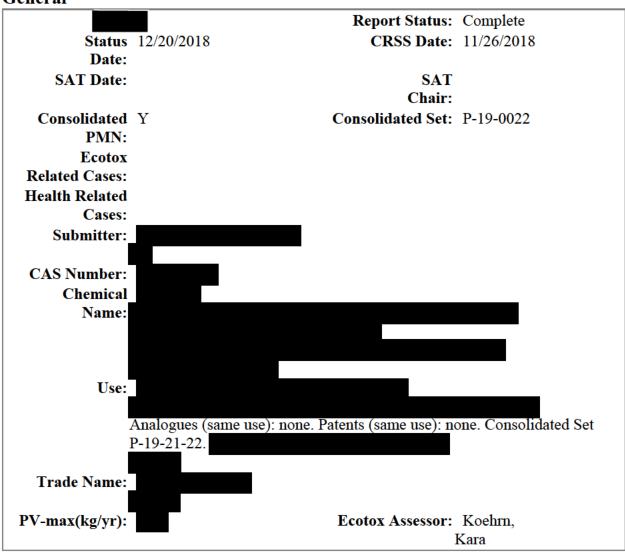
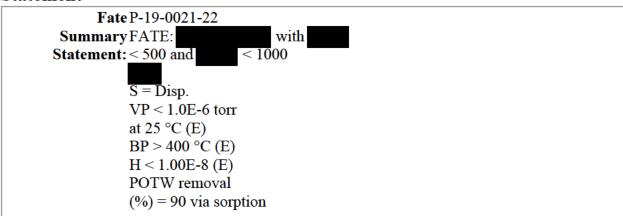
# **Ecotox Report for Case # P-19-0021**

#### General



### **Fate Summary**

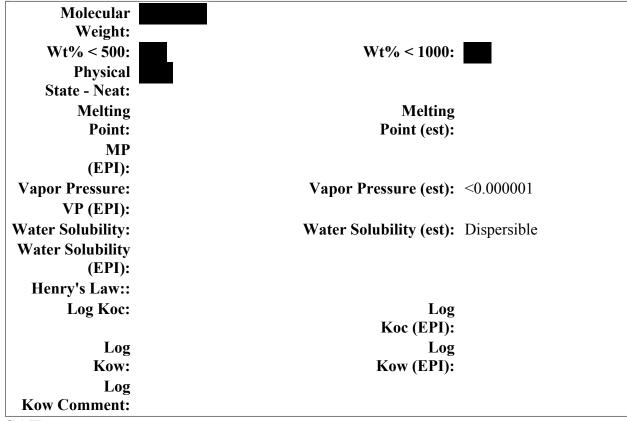
#### **Statement**



Time for complete ultimate aerobic biodeg >
mo
Sorption to soils/sediments = v.strong
PBT Potential:
P3B1
\*FATE: Migration to ground water =
negl

### **Physical Chemical**

#### **Information**



#### **SAT**

#### **Concern Level**

```
Ecotox 1
Rating (1):
Ecotox
Rating Comment
(1):
Ecotox Rating
(2):
Ecotox
Rating Comment
(2):
```

Ecotox Route of No releases to Exposure: water

### **Ecotox Comments**

Exposure N
Based Review
(Eco):
Ecotox
Comments:
Exposure Based
Testing:

# **PBT Ratings**

Persistence	Bioaccumulation	Toxicity	Comments
3	1	1	

# **Eco-Toxicity Comment:**

# **Fate Ratings**

Removal 90 in WWT/POTW (Overall):	0					
Condition	Rating		Rating I	Description		Comment
	Values	1	2	3	4	
Fish BCF:						
Log Fish BCF:						
WWT/POTW	3	Low	Moderate	Strong	V. Strong	
Sorption:						
WWT/POTW	4	Extensive	Moderate	Low	Negligible	
Stripping:						
Biodegradation	4	Unknown	High	Moderate	Negligible	
Removal:						
Biodegradation		Unknown	Complete	Partial		
<b>Destruction:</b>						
Aerobic Biodeg	4	<=	Weeks	Months	> Months	
Ult:		Days	*** 1	3.5	3.6	
Aerobic Biodeg		<= D	Weeks	Months	> Months	
Prim:	4	Days	VV1	M41	> M41.	
Anaerobic	4	<= Dova	Weeks	Months	> Months	
Biodeg Ult:		Days	Weeks	Months	> Months	

Removal9 in WWT/POTW	0					
(Overall): Condition	Rating		Dating	Description		Comment
Condition	Values	1	Rating 2	3	4	Comment
Anaerobic		<=				
Biodeg Prim:		Days				
Hydrolysis (t1/2		<=	Hours	Days	>= Months	
at pH		Minutes				
7,25C) A:				_		
Hydrolysis (t1/2		<= Minorton	Hours	Days	>= Months	
at pH 7,25C) B:		Minutes				
Sorption to	1	V.	Strong	Moderate	Low	
Soils/Sediments:	-	Strong	Such	1,100011110	20.11	
Migration to	1	Negligible	Slow	Moderate	Rapid	
Ground Water:					-	
Photolysis A,		Negligible	Slow	Moderate	Rapid	
Direct:		4. 44				
Photolysis B,		Negligible	Slow	Moderate	Rapid	
Indirect:		Magligible	Slow	Madarata	Danid	
Atmospheric Ox A, OH:		Negligible	Slow	Moderate	Rapid	
Atmospheric Ox		Negligible	Slow	Moderate	Rapid	
В, О3:					I	
Bio Comments:						
Fate Comments:						

# **Ecotoxicity Values**

Test organism	Test Type	Test Endpoint	Predicted	Experimental Comments
Fish	96-h	LC50	>100	Predictions are based on SARs for polyamphoteric polymers with amine-N (using amine and
Daphnid	48 <b>-h</b>	LC50	>100	" "
Green Algae	96 <b>-h</b>	EC50	>100	" "
Fish	-		>10	

Test	Test Type	Test Endpoint	Predicted	Experimental Comments			
organism							
		Chronic		"			
		Value		"			
Daphnid	-	Chronic Value	>10	" "			
Green Algae	-	Chronic Value	>10	" "			
Ecotox Value P	Ecotox Value Predictions are based on SARs for polyamphoteric						
Comments: po	Comments: polymers with amine-N (using amine ) and						
	;	with <50	00 and	<1000; with an			
u	unknown MP (P); S = dispersible (P); effective concentrations based on						
10	100% active ingredients and nominal concentrations; hardness <150 mg/L						
as	s CaCO3; and	TOC <2.0 mg/L.					

## **Ecotox**

#### **Factors**

Factors	Most Sensitive Endpoint	Assessment Factor	CoC	Comment
Acute Aquatic	>100,000	5	20,000	based on
(ppb):				predictions for acute fish
Chronic Aquatic	>10,000	10	1,000	based on
(ppb):				predictions for chronic fish

Factors	Values	Comments
SARs:	Polyamphoteric Polymers	
SAR	Polymers-amphoteric-	
Class:	dispersible	
TSCA NCC		_
Category?	None	

#### Recommended

Testing:

**Ecotox Factors** Environmental

Comments: Hazard: Environmental hazard is relevant to whether a new chemical substance is likely to present unreasonable risk because the significance of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance. EPA determined environmental hazard for this new chemical substance based on SAR predictions for amphoteric polymers (special class within ECOSAR v.2.0). Acute toxicity values estimated for fish, aquatic invertebrates, and algae are all >100 mg/L. Chronic toxicity values estimated for fish, aquatic invertebrates, and algae are all >10 mg/L. These toxicity values indicate that the new chemical substance is expected to have low

environmental hazard. Application of assessment factors of 5 and 10 to acute and chronic toxicity values, respectively, results in acute and chronic concentrations of concern of 20 mg/L (20,000 ppb) and 1 mg/L (1,000 ppb), respectively.

Environmental Risk: Risks to the environment were evaluated by comparing estimated surface water concentrations with the acute and chronic concentrations of concern. Risks to the environment were not identified based on low hazard

### **Comments/Telephone**

### Log

Artifact	Update/Upload	
	Time	